

Krish Patel

Project Portfolio: krishp03.github.io

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EDUCATION

RUTGERS UNIVERSITY

New Brunswick, NJ

B.S. Computer Science, September 2021 - May 2025 (*Expected*)

- **Relevant Coursework:** CS 112: Data Structures (*Planned Fall 2021*)

PRINCETON UNIVERSITY

Princeton, NJ

Dual Enrollment Student, August 2020 - May 2021

- **Relevant Coursework:** COS 126: Computer Science: An Interdisciplinary Approach, COS 217: Introduction to Programming Systems

STANFORD UNIVERSITY

Palo Alto, CA

Summer Session Participant, June 2020 – August 2020

- Participated in a program for high-achieving high school upperclassmen virtually
- **Relevant Coursework:** CS 103: Mathematical Foundations of Computing (Discrete Math)

MONTGOMERY HIGH SCHOOL

Skillman, NJ

High School Student, September 2017 - June 2021

- **Relevant Coursework:** AP Computer Science A, AP Calculus AB/BC, AP Statistics

PROJECTS

2-PLAYER TIC TAC TOE

- Created a 2-player tic tac toe online game in collaboration with another student
- Used objects, control structures and DOM manipulation in JavaScript

POST-WORKOUT (*CSSI Collaborative Final Project*)

- Designed and implemented a simple social media app that allows users to post descriptions of their workouts and diets
- Applied Firebase authentication and realtime database, as well as HTML/CSS/JavaScript

SLIDING PUZZLE SOLVER (*In Progress | Expected Finish: Late August 2021*)

- Created an 8 Puzzle Solver in Java as a part of Princeton's Algorithms course on Coursera
- Re-implementing the project using TypeScript/JavaScript and adding a GUI that allows users to input their puzzle, and then displaying the most efficient solution to the puzzle
- Applied various data structures and algorithms, such as binary heaps, priority queues, and the A* Search algorithm

EXPERIENCE

GOOGLE

CSSI: Online Participant

July 2021 – August 2021

- Completed an introductory project-based JavaScript and Firebase curriculum taught by Google engineers
- Configured 2 individual coding projects in JavaScript by using concepts such as variables, data types, and functions, and a collaborative final project using JavaScript, Firebase, HTML/CSS
- Delivered a collaborative final project presentation and live demonstration to Google employees and community leaders

LEADERSHIP

FRC TEAM 1403

Design Lead

June 2019 – June 2021

- Directed the CAD, 3D-Printing, Animation, VR, and CNC subteams (20 members total) of an award-winning FRC team
- Helped the team win 2 district-level awards and 1 competition-level award during my time as a captain
- Implemented documentation procedures that improved efficiency and collaboration between subteams

SKILLS

- Programming: Java, C, TypeScript, JavaScript, HTML/CSS, ARM64 Assembly
- Technologies: Firebase, Flutter
- Design/Manufacturing: Autodesk Inventor, Autodesk Fusion 360 (CAD and CNC Toolpathing)